Nevada Control Panel User Manual

User Manual for the Nevada Control Panel.



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1. Overview:

The Nevada Control Panel provides a central interface for monitoring and controlling various vehicle systems and peripherals. Like other BCA control panels, the Nevada Control Panel connects to an external Power Distribution Unit (PDU) and communicates via the LIN network.

Depending on the vehicle configuration and manufacturer settings, the Nevada Control Panel can display the following information:

- Leisure battery voltage
- Vehicle battery voltage
- Leisure battery current
- Vehicle battery current
- Load current
- Mains current
- Solar current
- Internal temperature
- External temperature
- Freshwater tank level
- Wastewater tank level
- Pump source status

Depending on the installed equipment and enabled features, the Nevada Control Panel also allows the user to:

- Switch ON/OFF all non-essential electrical appliances/accessories.
- Switch ON/OFF the lights.
- Switch ON/OFF the pump.
- Change the pump mode.
- Switch ON/OFF the awning light.
- Switch over the battery supply from Leisure to Vehicle
- Charge the Vehicle battery when a mains 230V connection is present.
- Calibrate the Water/Waste tanks.
- Control up to four dimmable lighting outputs via the Dimmer Screen (when dimmer hardware is installed and enabled by the manufacturer).
- Interface with ALDE heating (Compatible with ALDE 3020/3030 heater systems)
- Bluetooth connectivity (When the BCA Bluetooth Adapter is fitted)

The Nevada Control Panel can also generate notifications, warnings, and error messages to inform the user of system conditions, including:

- Leisure battery overvoltage
- Leisure battery undervoltage
- Vehicle battery overvoltage
- Vehicle battery undervoltage
- Low freshwater level
- High wastewater level
- Pump running notification
- Fuse blown warning
- ALDE communication or system error

- LIN50 Error
- Internal temperature sensor fault
- External temperature sensor fault
- Ignition active notification
- High mains current warning
- High battery, solar, or load current warnings

Note: Some information, functions, and notifications described in this manual may not be available on all vehicles. Availability depends on the installed equipment, manufacturer configuration, and enabled system features.

2. Specification:

Characteristic	**Minimum**	**Typical**	**Maximum**
Supply voltage	9v	12.0v	15v
Current draw (Backlight on) *	175mA (50% Brightness)	205mA (70% Brightness)	235mA (100% Brightness)
Current draw standby (Backlight off)		140mA	
Current draw in Storage Mode	-	45mA	-
Operating Temperature	0°C	-	+50°C
Weight	-	190g	
Materials	Control panel body: Polypropylene (PP) PCB: FR4, various materials		
Dimensions	139mm x 94mm		

*Current draw at 12.7v

Table 2.1: Nevada Control Panel Specifications

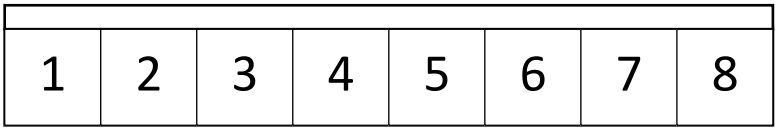
3. Warnings:

Please read and observe the following warnings before installing, operating, or servicing the Nevada Control Panel:

- Avoid prolonged exposure to direct sunlight or strong fluorescent lighting, as this may reduce the performance and visibility of the LCD display.
- Excessive moisture or condensation within the vehicle may affect the long-term reliability of the control panel electronics. Although the PCB is conformally coated to provide additional protection, moisture build-up should be minimised wherever possible.
- Do not touch the PCB or electrical connections without following appropriate Electrostatic Discharge (ESD) precautions. Failure to observe ESD handling procedures may result in permanent damage to electronic components.
- Ensure that the correct fuse rating is fitted in the control panel fuse position within the PDU. Using an incorrect fuse may result in equipment damage or reduced system protection.
- Ensure that the correct software version is installed for the specific vehicle model. Incorrect software may result in unexpected operation or unavailable features.
- Do not connect the control panel directly to an AC power source. The Nevada Control Panel is designed for operation from a nominal 12V DC electrical system only.
- Do not exceed the maximum rated supply voltage of 15V DC. Applying a voltage above this limit may cause permanent damage to the control panel.
- Before carrying out any maintenance or electrical work on the vehicle, isolate the power supply where appropriate and follow the vehicle manufacturer's safety procedures.
- The control panel is intended for indoor installation within the vehicle and should not be exposed directly to water, excessive humidity, or harsh environmental conditions.

4. Pin Information

J1: JST VH Pins Configuration



Pin Number	Maximum Current (A)	Voltage (V)	Connection
1	10A	12V	Power Input, 0-15v
2	10A	12V	GND
3	10A	-12v to +12v	LIN Signal, connected internally
4	10A	-12v to +12v	LIN Signal, connected internally
5	NC	NC	NC
6	NC	NC	NC
7	NC	NC	NC
8	NC	NC	NC

Table 4.1: J1 Pins Connections

5. Control Panel Interface:

The Nevada Control Panel is a modern, fully capacitive touchscreen control system designed for simple and intuitive operation of your caravan's onboard functions. All controls are accessed through the touchscreen display, eliminating the need for physical buttons or switches.

The interface is divided into a number of dedicated screens, each providing access to specific features, settings, and system information. Users can easily navigate between screens to monitor and control various caravan functions, including lighting, power management, water systems, heating, and other connected equipment, depending on the vehicle specification.

5.1 Menu Screen:

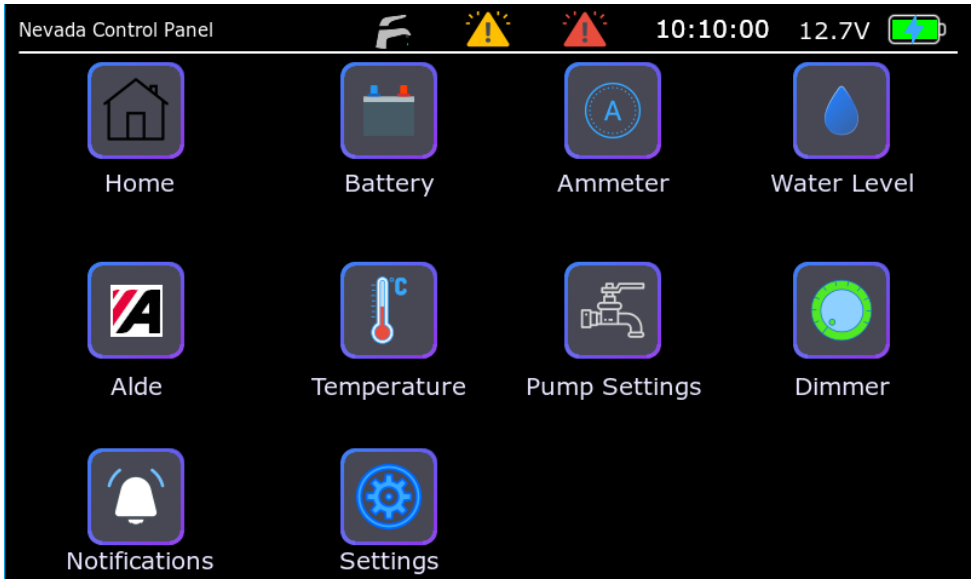


Image 5.1: Menu Screen

The Menu Screen provides access to all available system functions and feature pages via the displayed icons. From any screen within the system, the user can return to the Home Screen at any time by pressing the Home icon.

The position of the icons on the Menu Screen is fixed and cannot be customised by the user. However, the icons displayed will automatically adjust according to the vehicle manufacturer's configuration settings. Features that are not installed or have been disabled by the manufacturer will not be shown on the Menu Screen and therefore cannot be accessed by the user.

For example, if the Alde heating system is not fitted or has been disabled in the manufacturer's settings, the Alde icon will not be displayed, and the corresponding screen will be unavailable.

The Notifications icon provides a visual indication of the system status by changing colour according to the severity of any active messages:

- **No Colour / Blank** – No active notifications.
- **Yellow** – Warning requiring user attention.
- **Red** – System error requiring immediate attention.

Selecting the Notifications icon will display details of any active notifications, warnings, or errors.

5.2 Home Screen:

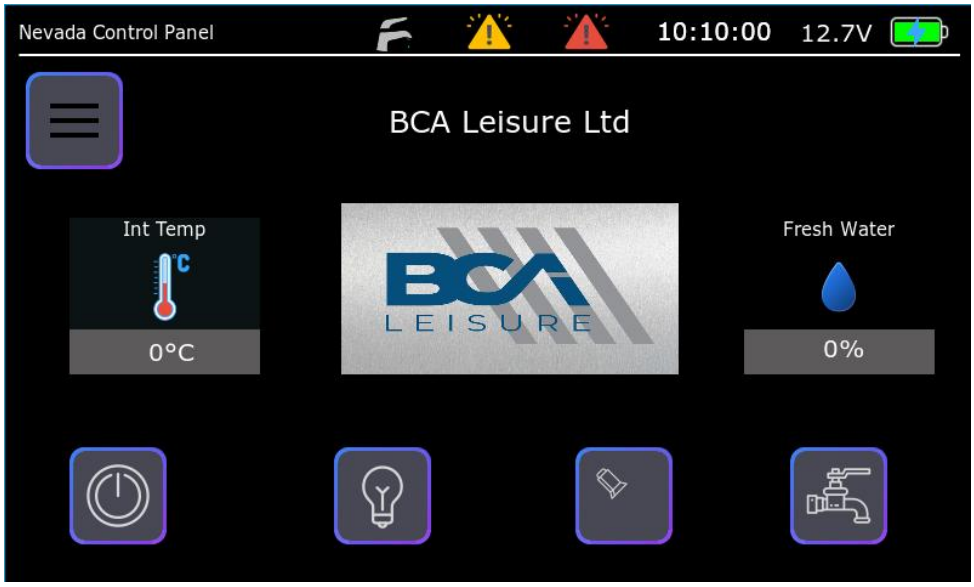


Image 5.2: Home Screen

The Home Screen is the primary screen of the Nevada Control Panel and is displayed when the panel is powered on. By default, if the panel is in Standby Mode, touching the screen will wake the display and return the user to the Home Screen (Image 5.2).

The Home Screen provides quick access to the most frequently used caravan functions and displays the current time.

The following controls are available:

- **Menu Button** ☰

  Navigates to the Menu Screen(**Image 5.1**)

- **Master Button**

  Enables or disables the caravan's master power system. The Master function must be enabled before certain vehicle systems and controls can be operated.

- **Lights Button**

  Enables or disables the interior lighting circuits. This function is only available when the Master function is enabled.

- **Awning Light Button**

  Enables or disables the external awning light. This function operates independently of the Master function.

- **Pump Button**

  Enables or disables the water pump. This function is only available when the Master function is enabled.

When any of the above functions are enabled, the corresponding button will illuminate blue to indicate that the function is active.

5.3 Battery Voltage Screen:

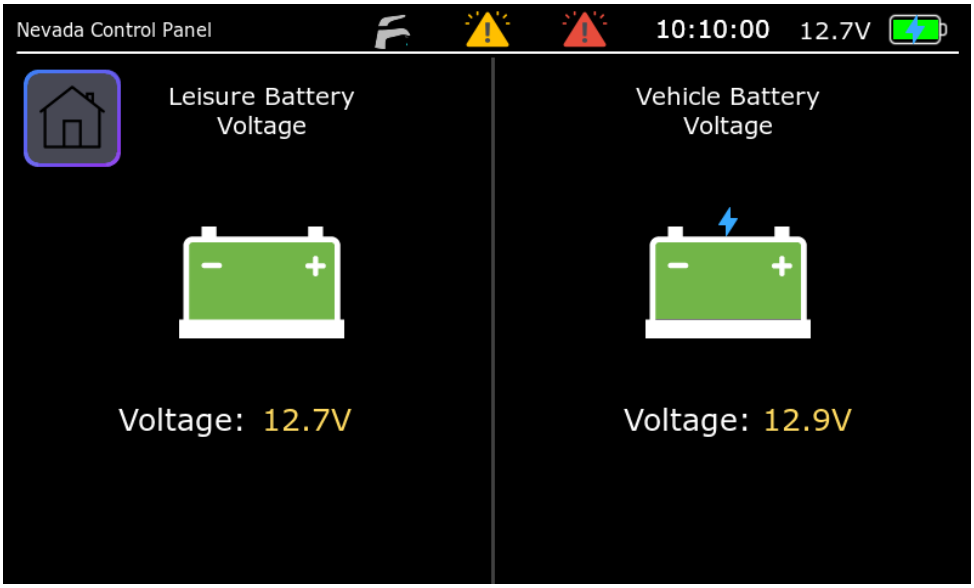


Image 5.3: Battery Voltage Screen

The Battery Voltage Screen displays the current voltage of the caravan's leisure battery, allowing the user to monitor the battery's condition and charging status.

The following controls and information are available on this screen:

- **Home Button**

  Returns the user to the Home Screen.

- **Leisure Battery Voltage**

Displays the current measured voltage of the leisure battery in real time.

- **Vehicle Battery Voltage**

If enabled in the manufacturer's configuration settings, the current vehicle battery voltage will also be displayed on this screen. If this feature is disabled, the vehicle battery voltage will not be visible.

- **Battery Selection (Leisure / Vehicle)**

When the vehicle battery option is enabled, the user can switch between leisure and vehicle battery by tapping the battery symbol in the Battery Voltage Screen. The currently active battery is indicated by a flashing bolt symbol.

- **Battery Charging Indicator**

When the caravan is connected to a mains power supply and the leisure battery is being charged, a charging symbol will be displayed within the battery icon located in the top-right corner of the information bar.

- **Battery Status and Warnings**

Under normal operating conditions, the battery icon is displayed in green. When the battery voltage falls below the configured threshold, the battery icon will change to red, indicating a low battery condition. Warning messages may also be displayed when either the leisure battery or vehicle battery voltage falls outside the limits configured by the manufacturer. These warnings help alert the user to potential low-voltage or high-voltage conditions that may require attention.

5.4 Water Screen

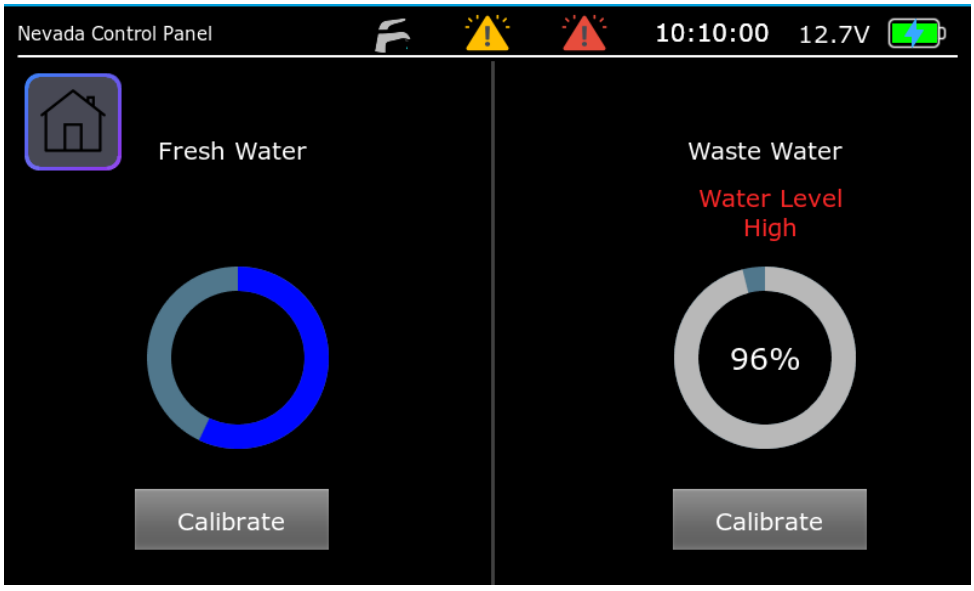


Image 5.4: Water Screen

The Water Screen displays the current levels of both the freshwater and wastewater tanks, shown as a percentage and a visual level indicator. Tank level information is only available when the Master function is enabled.

- **Freshwater Tank Level**

Displays the current level of the freshwater tank as a percentage and a graphical indicator.

- **Wastewater Tank Level**

Displays the current level of the wastewater tank as a percentage and a graphical indicator.

- **Low Freshwater Warning**

A low freshwater warning is displayed when the tank level falls below the configured threshold. The default factory setting for this warning is 10%, unless otherwise defined in the manufacturer's configuration settings.

- **High Wastewater Warning**

A wastewater warning is displayed when the tank level reaches or exceeds the configured maximum threshold defined in the manufacturer's settings.

- **Tank Calibration (CAL Button)**

Both freshwater and wastewater tank levels can be calibrated using the CAL button located below the respective tank level indicator. This allows the system to align displayed values with the actual physical tank levels.

5.4.1 Water Calibration

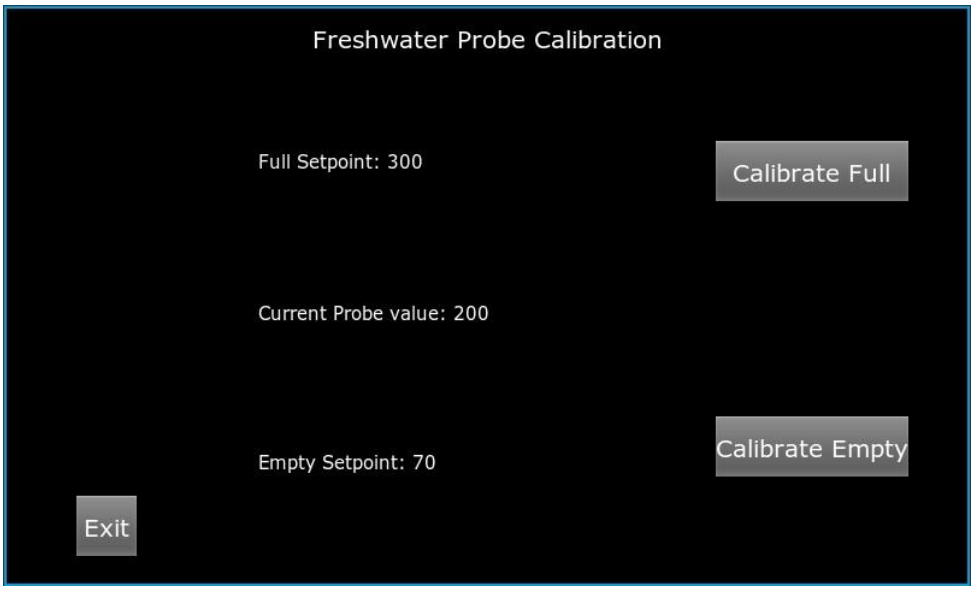


Image 5.4.1: Water Screen Calibration

Freshwater and wastewater tank levels can be calibrated using the **CAL** function on the Water Screen. Calibration establishes the reference points used by the system to accurately calculate and display tank level percentages.

When the vehicle is used for the first time, both empty and full calibrations must be completed to ensure correct operation of the tank level system.

Calibration Screen Values

The calibration screen displays the following values:

- **Current Probe Value** – Represents the real-time raw sensor reading of the current water level.
- **Empty Set Point** – Stored reference value corresponding to an empty tank condition.

- **Full Set Point** – Stored reference value corresponding to a full tank condition.

The Empty and Full set points are automatically updated when the respective calibration procedures are performed.

If the Current Probe Value is equal to, lower than, or higher than the stored calibration limits when the tank level does not correspond to those conditions, inspect the probe wiring and sensor installation before recalibrating.

Empty Calibration

To calibrate the empty reference point:

- Ensure the Master function is switched ON.
- Confirm that the relevant tank is completely empty.
- Select Calibrate Empty.

This action stores the current probe value as the Empty Set Point for the selected tank.

Full Calibration

To calibrate the full reference point:

- Ensure the Master function is switched ON.
- Fill the tank to the intended 100% level.
- Confirm that no water is overflowing from the tank overflow. If water is still flowing, wait until it stops.
- Select Calibrate Full.

This action stores the current probe value as the Full Set Point for the selected tank.

Once both calibration steps are completed, the system uses the stored Empty and Full Set Points to calculate and display accurate tank level percentages.

5.5 Temperature Screen

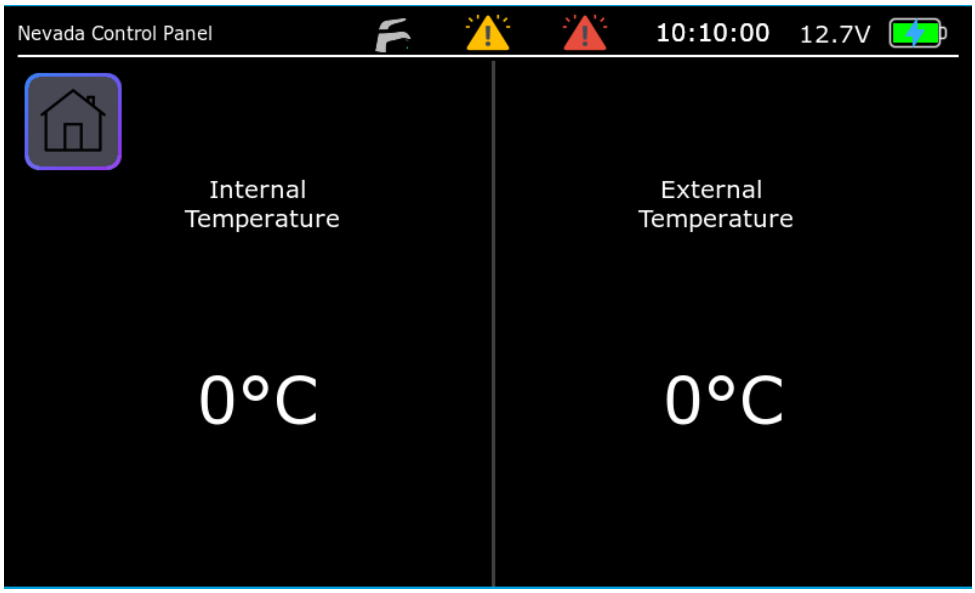


Image 5.5: Temperature Screen

The Temperature Screen combines both internal and external temperature displays within a single interface and presents the relevant data depending on system configuration and operating conditions.

- **Internal Temperature**

The internal temperature is displayed when enabled in the system configuration. If the ALDE heating system is connected to the control panel, the internal temperature value is sourced directly from the ALDE system.

- **External Temperature**

The external temperature is displayed only when enabled in the system configuration and when the Master function is switched ON.

- **Temperature Sensor Fault**

A temperature fault warning is displayed if no valid signal is received from the temperature sensor. This indicates a possible sensor disconnection or malfunction and may require inspection or service.

The system automatically selects and displays temperature sources based on the connected hardware and configuration settings.

5.6 Current Monitors Screen

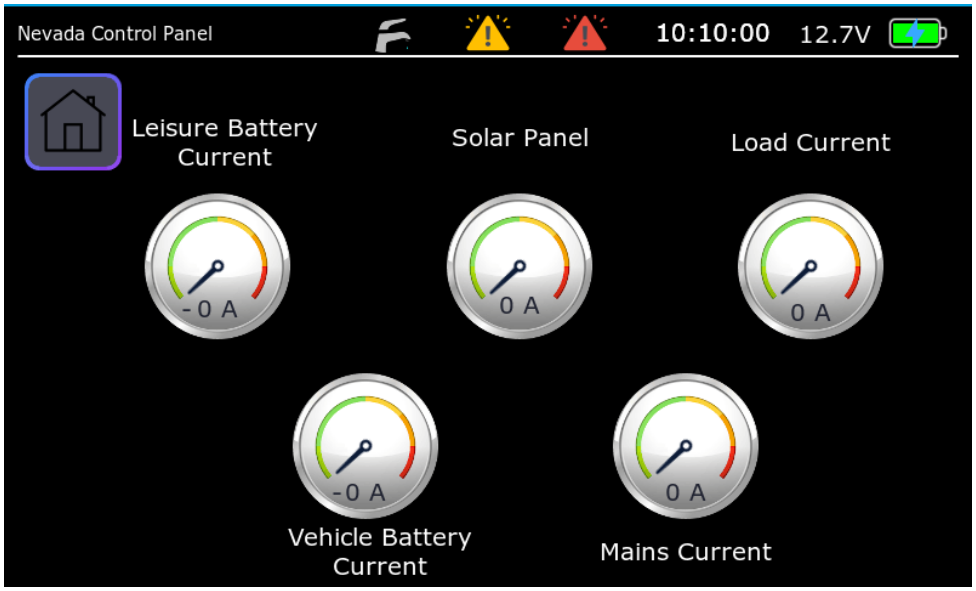


Image 5.6: Current Menu Screen

The Current Monitors Screen displays real-time current measurements for the leisure battery, vehicle battery, mains supply, solar input, and connected load (where enabled). This screen allows the user to monitor electrical consumption and charging behaviour within the system.

- **Leisure Battery Current**
  Displays the current flowing to or from the leisure battery.
- **Vehicle Battery Current**
  Displays the current associated with the vehicle battery.
- **Mains Current**
  Displays the current drawn from the mains supply.

- **Load Current**
  Displays the total current consumption of connected loads.
- **Solar Current**
  Displays the current generated by the solar panel connected to the PDU. This value represents the real-time charging current produced by the solar system.

Current Monitoring Settings
The availability of each current measurement (leisure battery, vehicle battery, mains, load, and solar) is configured via the manufacturer's configuration settings. Each channel can be independently enabled or disabled depending on the system installation and vehicle specification.

The maximum current threshold for each channel can also be configured individually in the manufacturer settings.

High Current Warning
A high current warning is displayed when any monitored current reaches or exceeds its configured threshold. These thresholds are defined in the manufacturer settings and may vary depending on system configuration. This warning indicates that the system is operating at or near its current limit and may require attention.

5.7 Settings - Firmware Screen

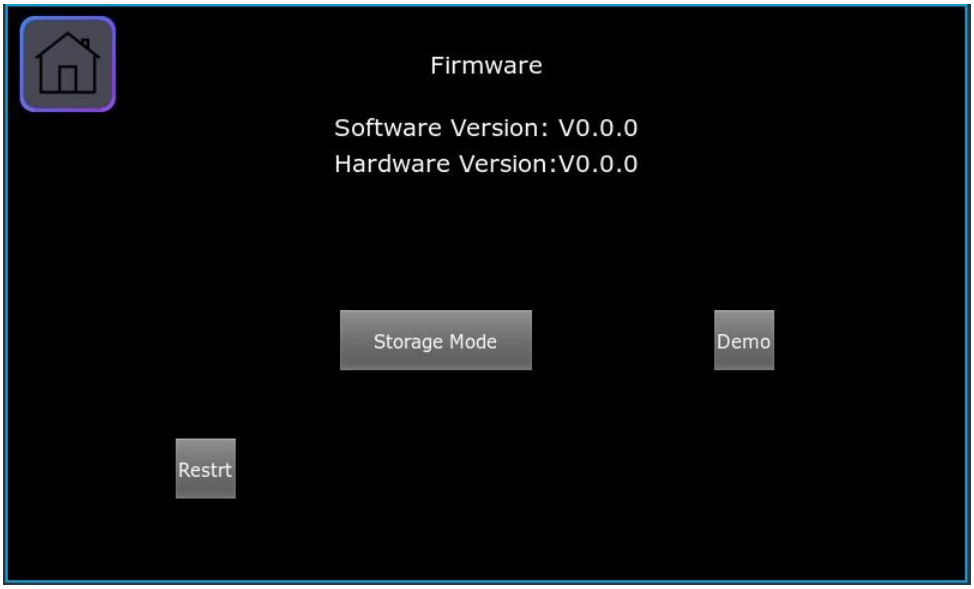


Image 5.7: Firmware Screen

The Firmware Screen provides system-level functions, including storage mode, demo mode, and system restart options.

- **Storage Mode Button**

The Storage Mode function allows the end user to place the control panel into a low-power storage state. In this mode, the system reduces active functionality to minimise power consumption during periods when the vehicle is not in use.

To exit Storage Mode, a full power reset is required. This can be achieved by either disconnecting and reconnecting the battery terminals or by removing and reinserting the control panel fuse in the PDU. Both methods will restart the control panel and restore normal operation.

- **Demo Mode Button**

Demo Mode is intended for dealership and exhibition use only. When enabled, the system displays simulated values for all connected peripherals, allowing demonstration of system functionality without requiring a fully connected installation.

- **Restart Button**

The Restart function performs a software reset of the control panel, rebooting the system without requiring a full power disconnection.

5.8 Settings – Display Settings Screen



Image 5.8: Brightness Screen

The Display Settings Screen allows the user to adjust the display brightness and configure the standby timer.

- **Brightness Adjustment**

The **+** and **–** buttons can be used to increase or decrease the display brightness. Changes take effect immediately, allowing the screen brightness to be adjusted to suit different lighting conditions.

- **Standby Timer**

The standby timer determines how long the display remains active before entering Standby Mode.

The standby timer can be adjusted using the + and − buttons. Multiple timeout options are available, ranging from a few seconds up to 60 seconds, as well as an OFF setting. When set to OFF, the display will remain active and will not automatically enter Standby Mode.

The default standby timer setting is 30 seconds.

5.9 Settings - Set Time Screen

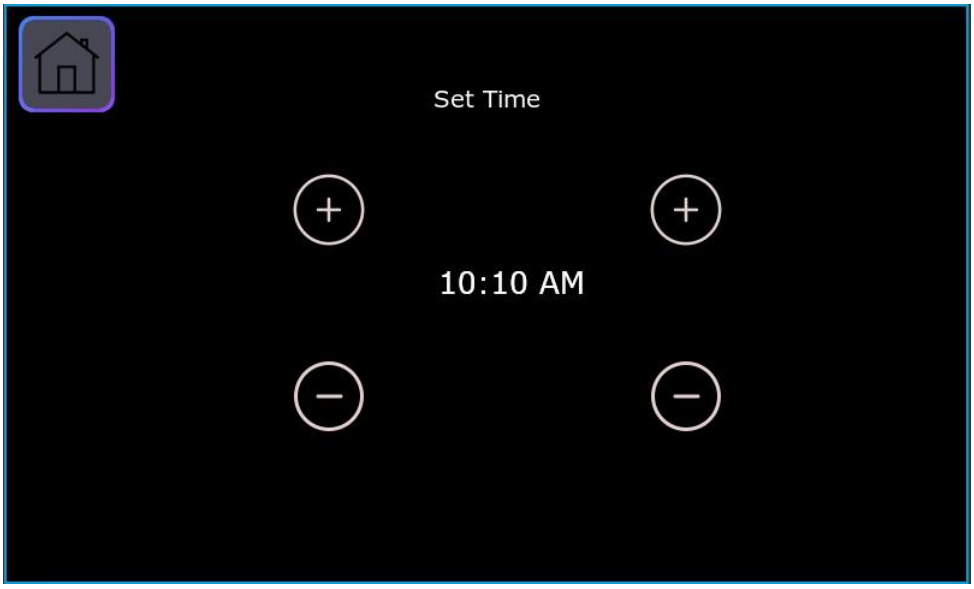


Image 5.9: Set Time Screen

The Set Time Screen allows the user to adjust the time displayed on the Home Screen.

The + and − buttons are used to increase or decrease the displayed time:

- The left-hand value adjusts the hours.
- The right-hand value adjusts the minutes.

Any changes made are applied immediately and will be reflected on the Home Screen clock display.

5.10 Pump Configuration

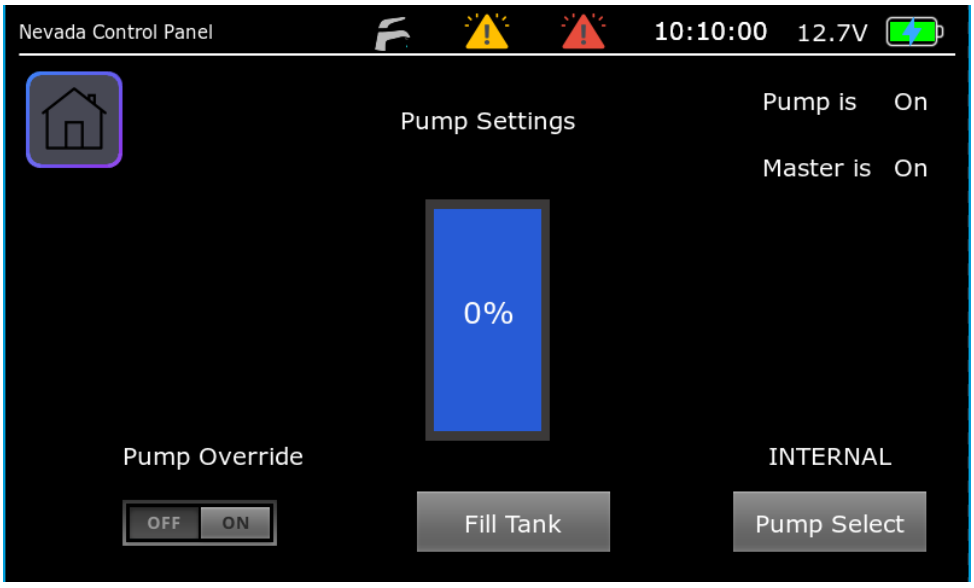


Image 5.10: Pump Configuration

The Pump Screen provides controls and status information relating to the vehicle's water pump system. These functions should only be used when required and in accordance with the vehicle manufacturer's recommendations.

- **Pump Select Button**

The Pump Select button allows the user to switch between the vehicle's internal water pump and an external water pump, where fitted and supported by the system.

- **Pump Override**

The Pump Override toggle switch forces power to be supplied directly to the selected pump, bypassing normal control conditions.

This function should only be used for troubleshooting or when instructed by the vehicle manufacturer or service personnel. Care should be taken when using Pump Override, as running a pump without water for an extended period may cause permanent damage to the pump.

- **Fill Tank Button**

The Fill Tank button activates the tank filling function, allowing water to be transferred into the freshwater tank where this feature is installed and enabled.

- **Tank Level Display**

A graphical tank level indicator is provided on the screen to show the current water level within the tank. The displayed level is calculated using data received from the tank water level probe, providing a visual representation of the available water.

The availability of certain pump functions may depend on the vehicle configuration and manufacturer settings.

5.11 ALDE Power Menu

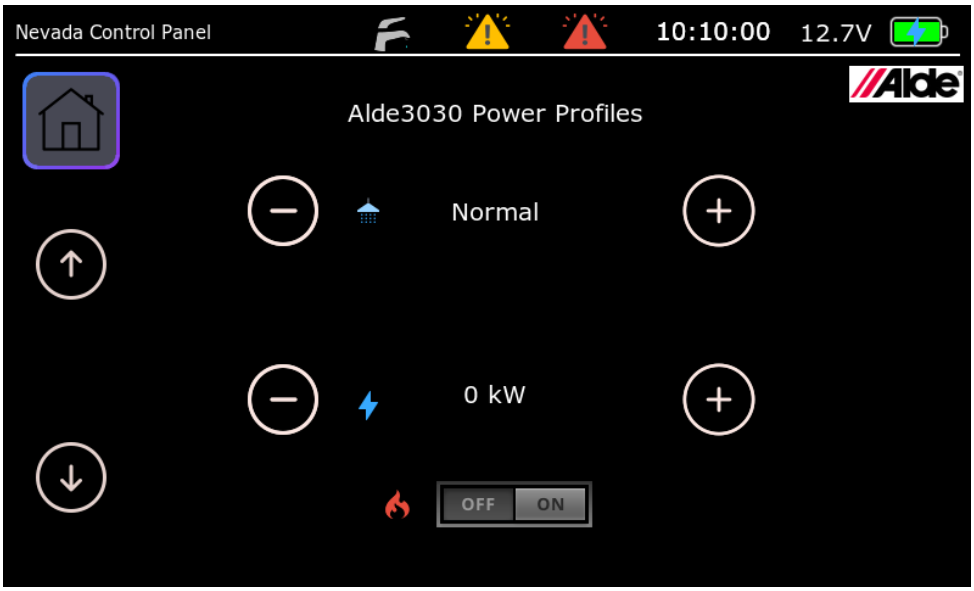


Image 5.11: ALDE Power Menu

The ALDE Power Menu allows the user to configure the ALDE heating and hot water system settings.

System Indicators (Applies to all ALDE screens)

The following indicators are used across all ALDE-related screens:

- **ALDE Error** 

Displayed when there is a LIN communication fault between the Nevada Control Panel and the ALDE controller, or when the ALDE controller reports an active fault condition. When active, this indicator is shown across all ALDE screens.

- **Panel Busy** 

Displayed when the ALDE controller is actively being used or has priority control. While this indicator is active, settings cannot be changed from the Nevada Control Panel. The indicator is cleared once the user exits the ALDE settings menu on the ALDE controller.

- **Hot Water Setting**

The + and − buttons are used to adjust the hot water mode. Available options:

- **OFF**
- **Normal**
- **Boost**

- **Electric Heating Setting**

The + and − buttons are used to adjust the electric heating output level, up to a maximum of 3 kW depending on system configuration.

5.11.1 ALDE Heater Menu



Image 5.11.1: ALDE Heater Menu

The ALDE Heater Menu allows the user to adjust the desired heating temperature.

- **Temperature Adjustment**

The + and − buttons are used to increase or decrease the target room temperature.

- **Temperature Sensor Priority**

When the ALDE heating system is enabled and communicating correctly, the ALDE temperature sensor takes priority over the BCA internal temperature sensor(if installed). The system will therefore display the ALDE temperature reading.

- **Loss of LIN Communication**

If LIN communication between the ALDE and the Nevada Control Panel is lost, ALDE temperature data will no longer be available.

5.11.2 ALDE Heater Status

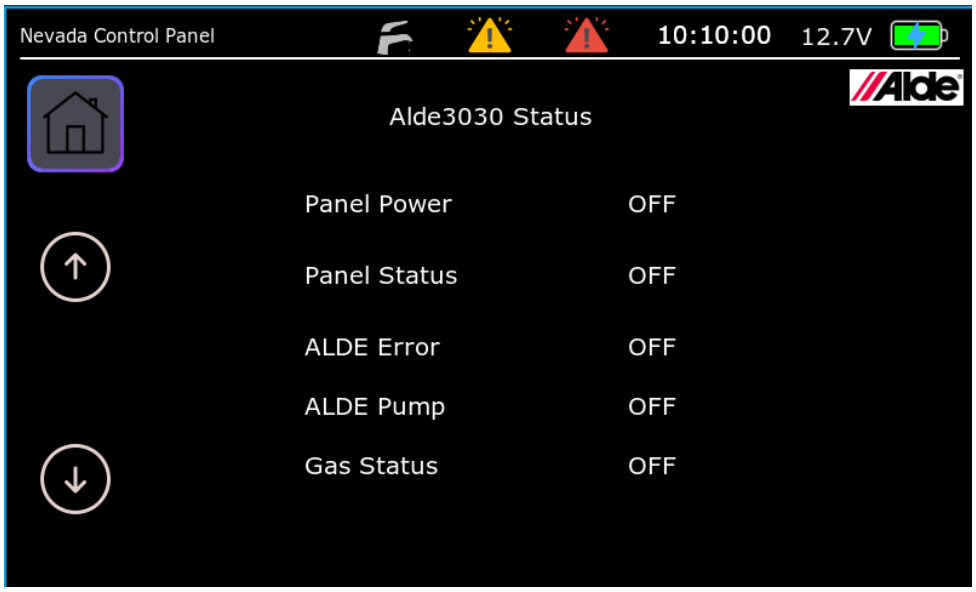


Image 5.11.2: ALDE Heater Status

The ALDE Heater Status Screen displays the current operating status of the ALDE control panel. Status information is updated automatically via LIN communication.

The ALDE Error and Panel Busy indicators (defined in Section 5.11) apply to this screen.

5.11.3 ALDE Truma AC



Image 5.11.3: ALDE Truma AC

The ALDE Truma AC Screen displays the installation status of the Truma air conditioning system, where enabled.

- **Installed**
  When a compatible Truma air conditioning system is detected, the status is shown as Installed, and the control toggle is available.
- **Not Installed**
  When no compatible system is detected, the status is shown as Not Installed, and the control toggle is hidden.

The control toggle is only visible when the system is installed and supported by the configuration.

5.12 Dimmer Screen

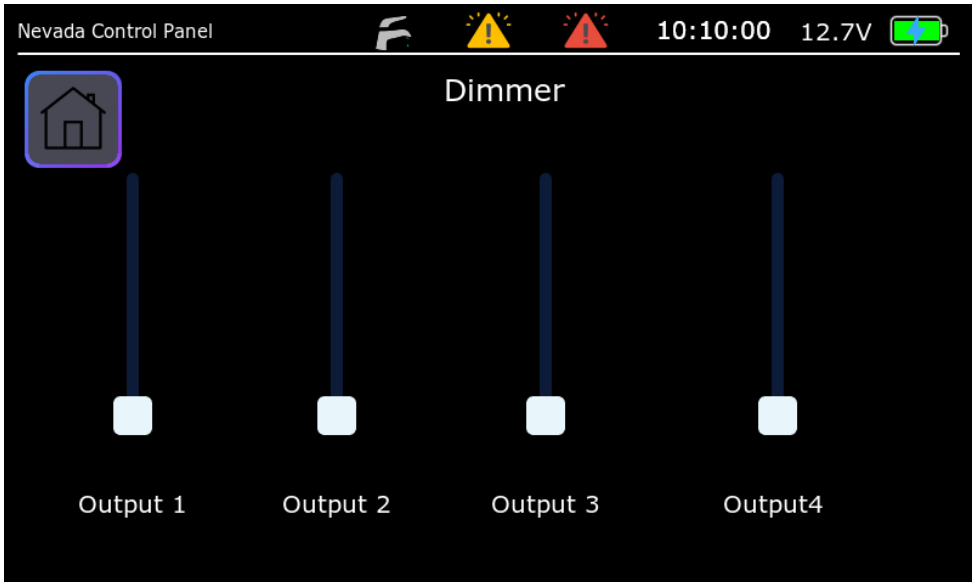


Image 5.12: Dimmer Screen

The Dimmer Screen allows the user to control the brightness of up to four independent lighting outputs.

Each dimmer channel is equipped with a slider control that can be adjusted to increase or decrease the brightness of the connected LED lighting circuit. Changes are applied immediately as the slider is moved.

The availability of each dimmer channel depends on the vehicle configuration and installed hardware. Up to four dimmer outputs can be supported; however, individual channels may be enabled or disabled by the manufacturer. For example, a vehicle may be configured with only two active dimmer channels, in which case the remaining channels will not be displayed or available for use.

This feature is only available when compatible dimmer hardware is installed and enabled within the system configuration.

5.13 Notification Screen

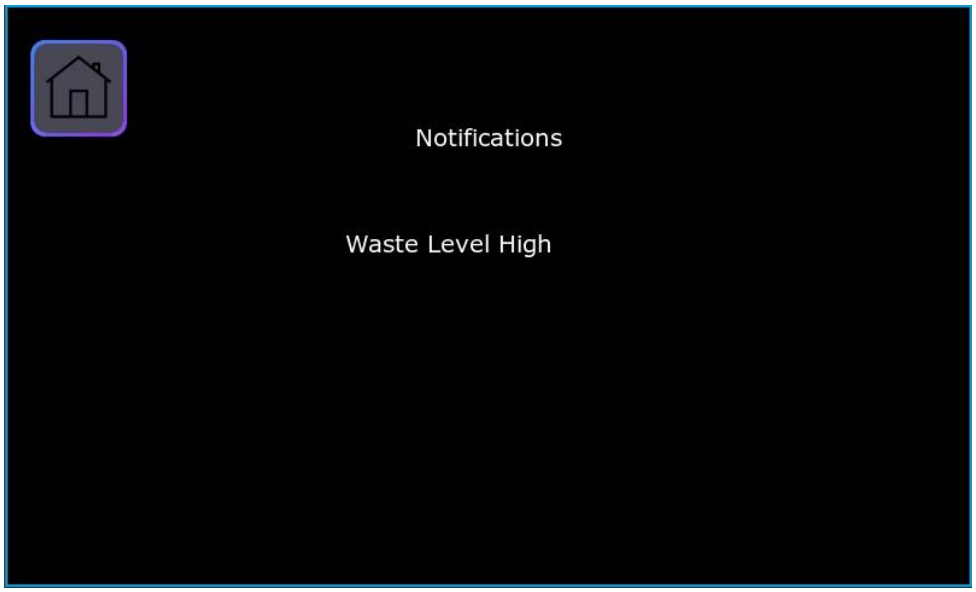


Image 5.13: Notification Screen

The Notification Screen displays the current number of active system messages, including notifications, warnings, and errors.

When a notification appears, pressing the triangle icon in the top info bar will open the Notification Screen, where the active alerts or errors are displayed.

Notification	Meaning
	The water pump is currently operating.
	The vehicle is connected to an external mains power supply.

Warning 	Meaning
Low Fresh Water	Freshwater tank level is low.

Leisure Battery Low Voltage	Leisure battery voltage is low and requires charging.
Leisure Battery High Voltage	Leisure battery charging voltage is higher than expected.
Fuse Blown	A monitored fuse has failed.

Error 	**Meaning**
ALDE Error	Communication with the ALDE system has been lost, or a fault has been detected.
Internal Temperature Sensor	A fault has been detected with the internal temperature sensor.

6. Notifications, Warnings & Errors:

The Nevada Control Panel displays notifications, warnings, and errors based on data received from the system's communication network. These alerts are generated when monitored values exceed or fall below predefined thresholds.

Threshold values may vary depending on the vehicle manufacturer's configuration. The values listed in this section represent the standard default settings.

6.1 Leisure Battery High Voltage Warning:

Triggered when the leisure battery voltage reaches 15.0 V or higher. If a lead-acid battery remains at or above this voltage for an extended period, it may become overcharged, potentially causing damage.

6.2 Leisure Battery Low Voltage Warning:

This warning is activated when the measured voltage of the leisure battery falls to 11.5 V or below. Extended operation at this level may reduce battery performance and lifespan.

6.3 Vehicle Battery High Voltage Warning:

This warning is activated when the measured vehicle voltage reaches 15.0 V or higher. If a lead-acid battery remains at or above this voltage for an extended period, it may become overcharged, potentially causing damage.

6.4 Vehicle Battery Low Voltage Warning:

This warning is activated when the measured voltage of the vehicle battery falls to 12.4 V or below. If the battery remains below 12.0 V for an extended period, its performance may be adversely affected.

The default threshold for the Vehicle Battery Low Voltage Warning is set to 12.4 V, as this battery must retain sufficient charge to operate the vehicle's starter motor. If the battery becomes excessively discharged, the electrical system may be unable to crank the engine, preventing it from starting.

6.5 Fresh Water Low Notification:

This notification is displayed when the water probes detect that the freshwater tank capacity is at 10% or below. It serves as an informational alert to indicate that the freshwater supply may soon be depleted.

6.6 Waste Water High Notification:

This notification is displayed when the waste probes detect that the wastewater tank has reached 90% or higher capacity. It serves as an informational alert to indicate that the tank may soon be full.

6.7 Pump Running Notification:

This notification occurs when a pump is currently running, as pumps are often powered but not active; this notification is only present when the pump is pumping water.

6.8 Mains Connected Notification:

This notification occurs when the leisure vehicle is connected to a 230V power source.

6.9 Leisure Battery High Current Warning:

This warning occurs when the current monitors are measuring a large amount of current flowing from the leisure battery; this is the default set to 18.0A. The more current that is drawn from a leisure battery, the hotter it will get and the quicker it will drain its total power reserves.

6.10 Vehicle Battery High Current Warning:

This warning is activated when the current monitors detect a high current draw from the vehicle battery, with a default threshold of 10.0 A. As the vehicle battery is also required to start the engine, it is important to prevent excessive discharge that could leave insufficient power to operate the starter motor.

6.11 Solar High Current Warning:

This warning occurs when the current monitors are measuring a large amount of current flowing from the solar panel system. While the generation of a large amount of current from the solar system is positive, the electrical system is fused for specific values, and if too much current is flowing, it may blow the fuse. This value is set to 10.0A as the default.

6.12 Mains High Current Warning:

This warning occurs when the current monitor attached to the 230V system measures a large amount of 230V power flowing into the vehicle. If 10.0A or higher is being used, then this warning will display. As camping sites have different 230V current limits, it is good practice to check the site's mains power limit beforehand.

6.13 Internal Temperature Sensor Error:

This error occurs when the Internal Temperature Sensor measures a value higher than 65°C or lower than -35°C.

When the measured temperature is higher than 65°C, it means that the sensor is likely not connected or is open-circuit.

When the measured temperature is lower than -35°C, it means that the temperature sensor pins are likely shorted together.

6.14 External Temperature Sensor Error:

This error occurs when the External Temperature Sensor measures a value higher than 65°C or lower than -35°C.

When the measured temperature is higher than 65°C, it means that the sensor is likely short-circuited or damaged.

When the measured temperature is lower than -35°C, it means that the sensor is likely not connected or is open-circuit. Note that the Master must be on to detect if the External Temperature Sensor is working.

6.15 Vehicle Drain Current Notification:

This notification occurs when the Vehicle Battery is selected as the power source, and the Vehicle Battery current monitor is detecting that 5.0A is being drawn from the battery. It is to inform the user that there is an amount of power being drawn from the vehicle battery and to generally keep an eye on the amount of power being consumed from the vehicle battery.

6.16 BT LIN Error:

This error occurs when the Nevada Control Panel is attempting to communicate with a BCA BT module over the BCA LIN network, but cannot find it. This may be because the unit is not installed or because the unit has failed.

6.17 ALDE Error:

This error occurs when the Nevada Control Panel is attempting to communicate with the ALDE3020 Heating System (If installed), but cannot find it or if there is a heating error supplied by the ALDE3020 Heating System.

6.18 High Load Current Warning:

This warning occurs when the current monitors calculate that the total amount of 12V power being used by the vehicle's electrical system is over a set value (default 20.0A). This warning exists because the vehicle's electrical system has a finite power capacity and will warn the user if they are starting to draw significant amounts of power through the electrical system.

7. Fuse Diagnostics

The Nevada Control Panel supports fuse diagnostics through communication with the PDU over the LIN network. When a monitored fuse blows, the PDU reports the fault to the control panel, allowing the user to identify the affected circuit.

Due to system design limitations, fuse diagnostics are not available for all fuse positions.

Fuse No.	Has Diagnostics	Function
F1	No*	Ignition Fuse
F2	No*	Leisure Battery Fuse
F3	No*	Solar Fuse
F4	No*	Vehicle Battery Fuse
F5	No*	Control Panel Fuse
F6	Yes	Lights Circuits 1+3 Fuse
F7	Yes	Lights Circuits 2+4 Fuse
F8	Yes	20A fuse limiter for F16, F17 and F18
F9	Yes	Fuse for 3 Master outputs
F10	No*	Fridge Fuse
F11	Yes	Master Output Fuse
F12	Yes	Master Output Fuse
F13	Yes	Master Output Fuse
F14	Yes	Permanent Output Fuse
F15	Yes	Permanent Output Fuse
F16	Yes	Master Output Fuse
F17	Yes	Master Output Fuse
F18	Yes	Master Output Fuse
F19	Yes	Pump Common Fuse
F20	Yes	Control Panel Ignition Supply Fuse
F21	No	Fridge Signal Output

Notes:

* Fuse diagnostics are not available for these fuse positions because a blown fuse would either prevent the control panel from operating or would remove a signal required for diagnostics to function correctly. Examples include the control panel power supply, ignition supply, and refrigerator-related circuits.

Where fuse diagnostics are available, a blown fuse will generate a notification or warning on the Nevada Control Panel to assist with fault identification and troubleshooting.